

% \$550° ■**€**

FIG.2

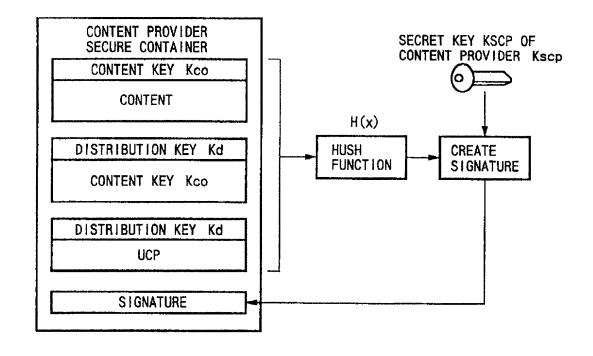
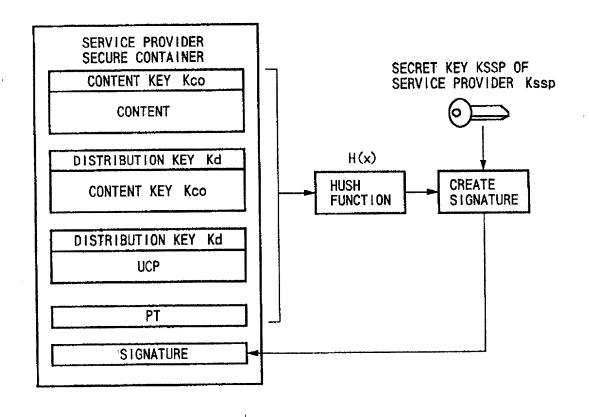


FIG.3



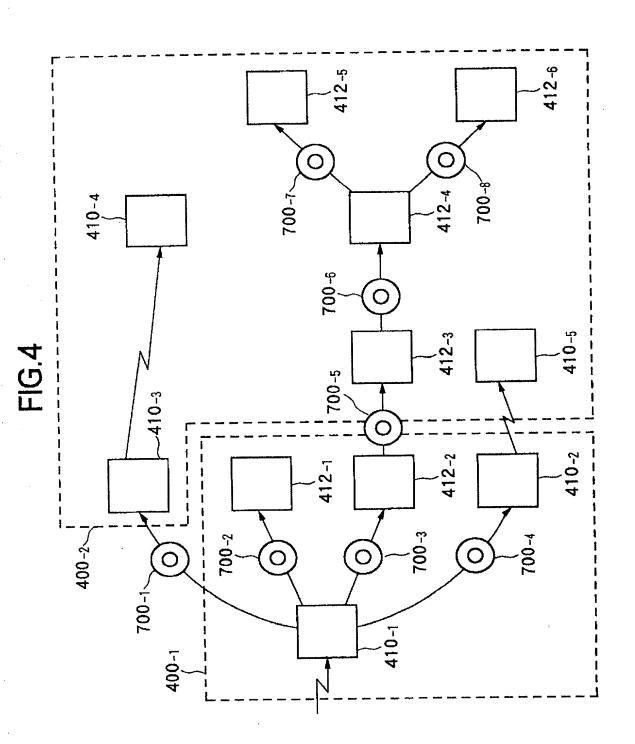


FIG.5

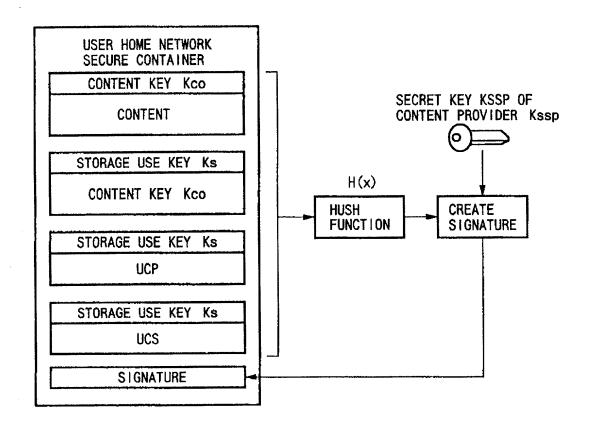


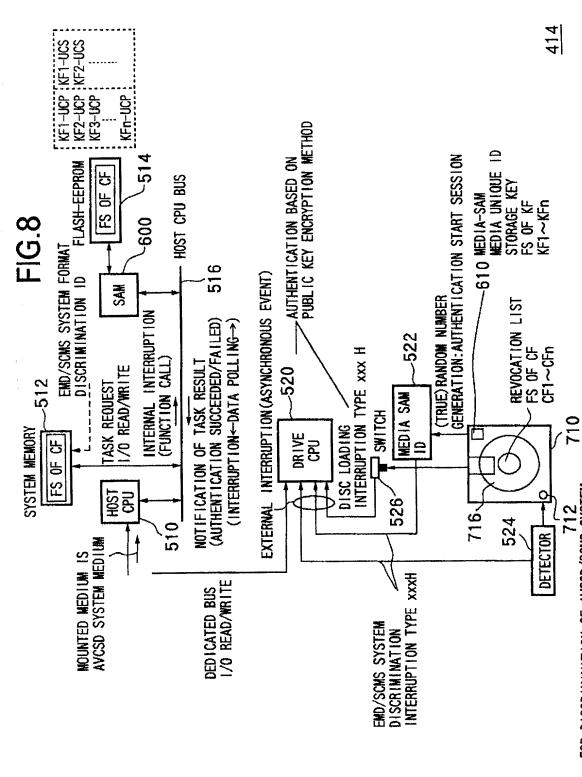
FIG.6

USAGE CONTROL POLICY (UCP)
VERSION (VERSION NO.)
CONTENT ID FOR MANAGING ASSET MANAGEMENT AT CONTENT PROVIDER
SIGNATURE (CONTENT PROVIDER SECRET KEY)
GLOBAL UNIQUE CONTENT ID FOR MANAGEMENT OF THIRD PARTY RELIABLE ORGANIZATIONS
SIGNATURE (SECRET KEY OF THIRD PARTY RELIABLE ORGANIZATIONS)
COUNTRY, AREA CODE
CONTENT PROVIDER INFORMATION
AUTHORING DATE
ISSUER INFORMATION: THIRD PARTY RELIABLE ORGANIZATION INFORNATION ISSUE DATE
EXPIRATION DATE (VALIDITY)
COMMUNICATION ADDRESS OF THIRD PARTY RELIABLE ORGANIZATION
DISTRIBUTION SERVICE PROVIDER INFORMATION
TYPE INFORMATION OF CONTENT® MOVIE/MUSIC/PROGRAM/CM/PR MATERIAL
TYPE INFORMATION OF CONTENT(2) ORIGINAL/SECONDARY USAGE/EDITED WORK
TYPE INFORMATION OF EXPRESSION OF CONTENT® MOVING PICTURE
IMAGE. STATIC IMAGE. AUDIO. ETC. TYPE INFORMATION OF EXPRESSION OF CONTENT(2) SIGNAL PARAMETERS.
COMPRESSION METHOD
HANDLING AND CONTROL INFORMATION FROM USAGE SPACE EXAMINATION
ACCESS CONTROL INFORMATION FROM CONTENT PROVIDER
ACCESS CONTROL INFORMATION FROM USER (INITIAL VALUE)
HANDLING POLICY CONCERNING MILEAGE AND DISCOUNT COUPON
RECOMMEND SETTLEMENT MEANS: THIRD PARTY RELIABLE ORGANIZATION/ELECTRONIC MONEY SETTLEMENT
HANDLING AND CONTROL INFORMATION FOR LISTENING TO DEMO SAMPLE
(SEMI-PUBLIC PARAMETERS)
SALE MANAGER OF CONTENT (PRODUCT) / SALE COUNTRY, AREA CODE
USAGE CONTROL PRICE IN EACH TYPE OF PURCHASE IS WHOLESALE PRICE
PROMOTION USE FREE SERVICE PERIOD/NUMBER OF TIMES
RE-DISTRIBUTION UPPER LIMIT OF COPIES
REPRODUCTION CHARGE PAY-PER-USE (>SELL THROUGH)
SELL THROUGH PRICE OF ONE COPY/TWO COPIES/N COPIES
①COMPLETE
②TIME LIMITED
③PAY PER PLAY N
SELL THROUGH-SCMS
COPY FREE/ONE COPY/NO COPY /ONE COPY HAS BEEN MADE RECORDING CHARGE PAY PER SCMS COPY N
COPY CONTROL TICKET PURCHASED NUMBER
PAY PER COPY
PAY PER BLOCK
COMPATIBILITY WITH SCMS APPARATUS
①EMD>SCMS
②SCMS>EMD

FIG.7

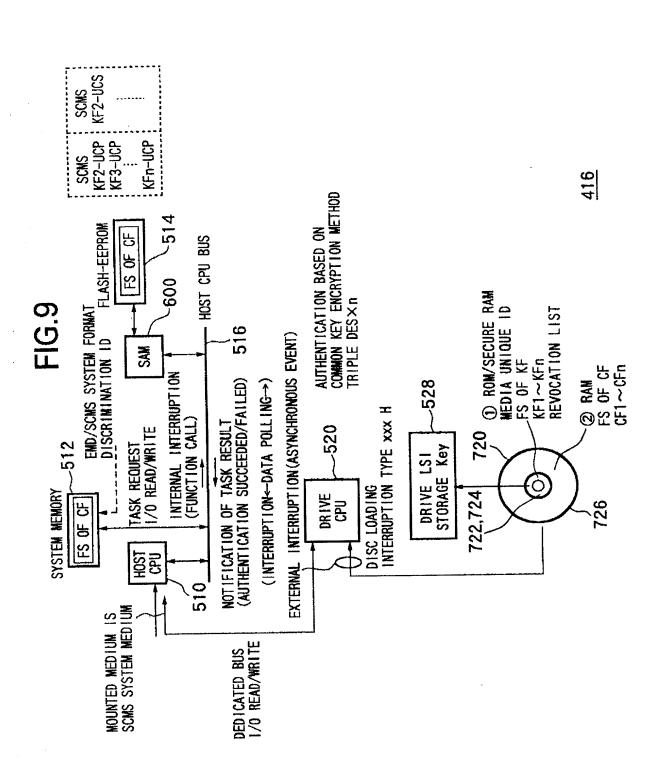
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		(-DER-IISE)							

UPPER LIMIT OF COPIES (-->SELL THROUGH)
PRICE OF ONE COPY/TWO COPIES/.... N COPIES



1,2253

FOR DISCRIMINATION OF AVCSD/SCMS SYSTEM MANUALLY SWITCHED BY SELECTION OF USER



angka.

FIG.10

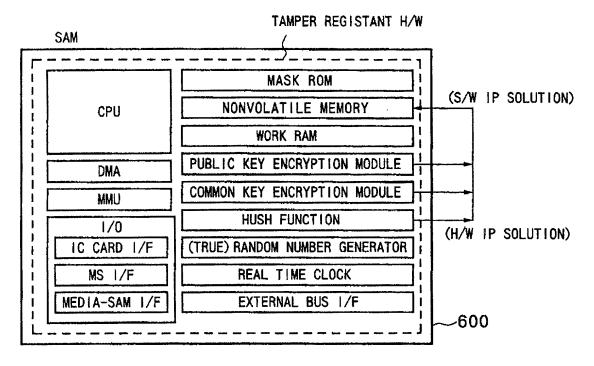


FIG.11

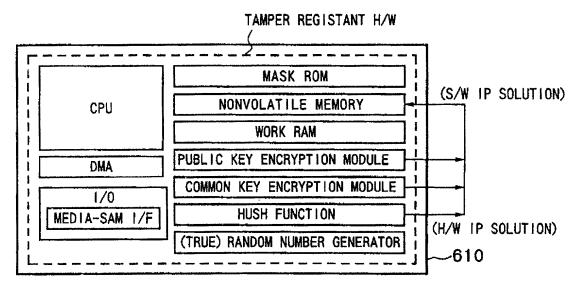
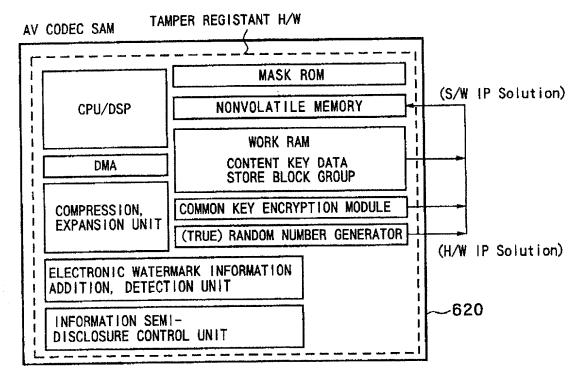


FIG.12



my little

FIG.13

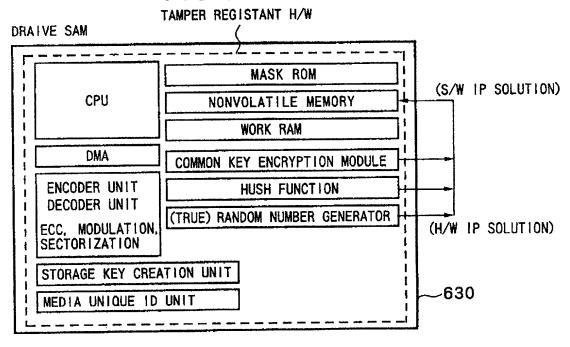
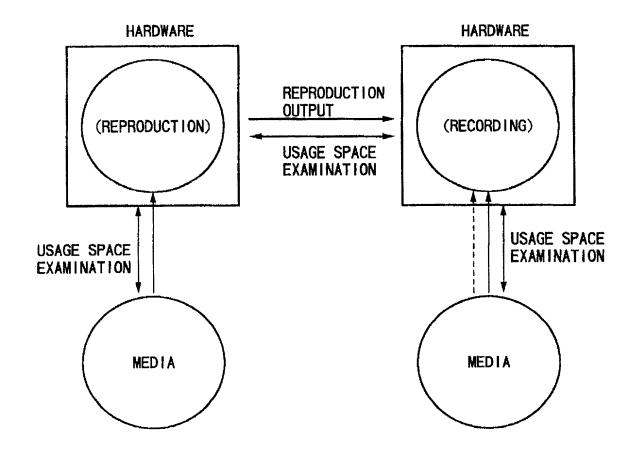


FIG.14

THE PARTY OF THE P



CONTENT USAGE CONTROL POLICY UCP/UCS, U-TOC

EMD SYSTEM CONTENT/SCMS SYSTEM CONTENT U-TOC RIGHT CLEARING OF CONTENT UCP SIGNAL PARAMETERS, COMPRESSION CODEC METHOD UCP DISPLAY FUNCTION OF RECOMMENDED MONITOR UCP PERSONAL INFORMATION (PURCHASER INFORMATION) UC RIGHT CLEARING (PROFIT DISTRIBUTION) DATA UCS

CONCERNED ENTITY ID CONTENT PROVIDER ID SERVICE PROVIDER ID THIRD PARTY RELIABLE ORGANIZATION ID

REPRODUCTION APPARATUS HNG-ID EMD SYSTEM APPARATUS/SCMS SYSTEM **APPARATUS** BIT STREAM RECODER OR/NOT SIGNAL PARAMETERS COMPRESSION CODEC METHOD DISPLAY CAPABILITY OF MONITOR CONNECTED EXIST (WHERE IT EXISTS, WHICH CONVERSION FUNCTION IS HELD?) EG. 1B|T, 1. 2882M→16B|T, 44. 1K

FORMAT CONVERSION FUNCTION EXISTS/NOT RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY APPARATUS ID ID OF APPARATUS DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION

MEDIUM MOUNTED IN REPRODUCTION APPARATUS EMD SYSTEM MEDIUM/SCMS SYSTEM MEDIUM TYPE OF MEDIUM MEDIUM TYPE ②ROM/RAM

RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY MEDIUM ID ID OF MEDIUM DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION

RECORDING APPARATUS HNG-ID

EMD SYSTEM APPARATUS/SCMS SYSTEM **APPARATUS** BIT STREAM RECODER OR/NOT SIGNAL PARAMETERS COMPRESSION CODEC METHOD DISPLAY CAPABILITY OF MONITOR CONNECTED PARAMETER CONVERSION FUNCTION EXISTS/NOT EXIST (WHERE IT EXISTS, WHICH CONVERSION FUNCTION IS HELD?) EG. 1BIT, 1. 2882M→16BIT, 44. 1K RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY APPARATUS ID ID OF APPARATUS DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED

ID OF REGISTERED THIRD PARTY RELIABLE

ORGANIZATION

MEDIUM MOUNTED IN RECORDING APPARATUS

EMD SYSTEM MEDIUM/SCMS SYSTEM MEDIUM MEDIUM TYPE TYPE OF MEDIUM (2)ROM/RAM

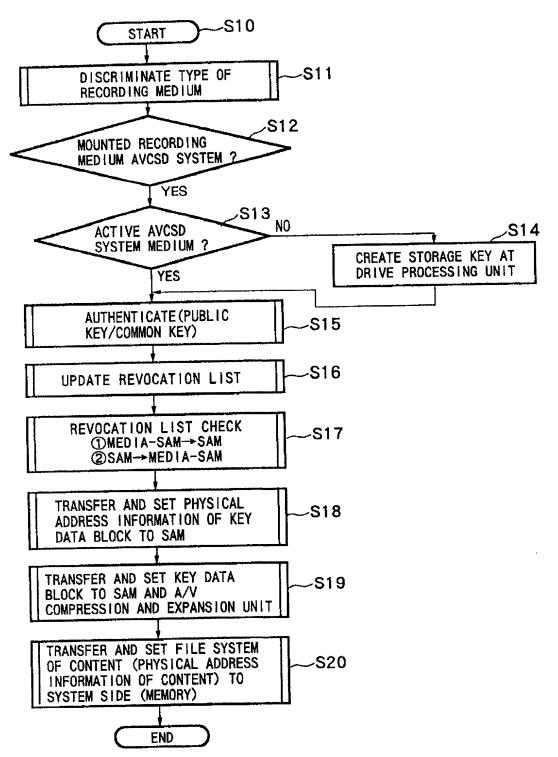
RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY MEDIUM ID ID OF MEDIUM (DEVELOPMENT MAKER) ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION

FIG.16

	RECORDING MEDIUM 2-3	
	RECORDING MEDIUN 2-2	
ORRESPONDENCE	RECORDING MEDIUM 2-1	
NE-TO-MANY C	RECORDING APPARATUS 2	
USAGE SPACE EXAMINATION IN HOME NETWORK (SIMULTANEOUS ONE-TO-MANY CORRESPONDENCE)	RECORDING Medium 1	
	ION RECORDING APPARATUS 1	
ION IN HOME I	REPRODUCT I ON MED I UM	
ICE EXAMINAT	CONTENT REPRODUCTION REPRODUCTION APPARATUS MEDIUM	
USAGE SP	CONTENT	

FIG.17

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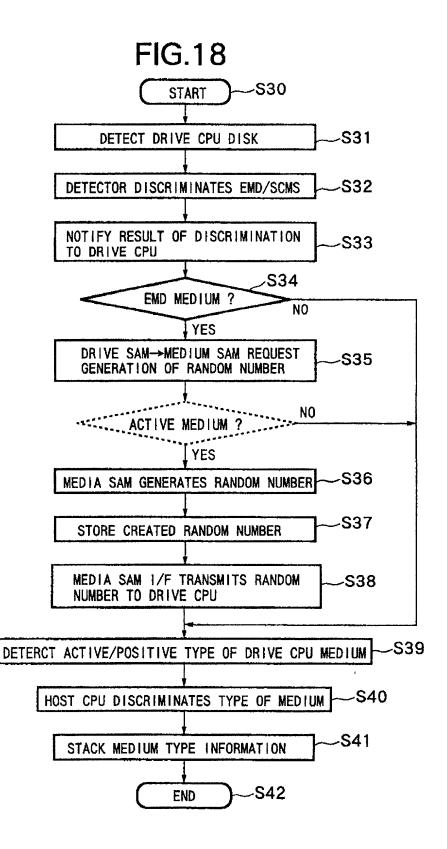
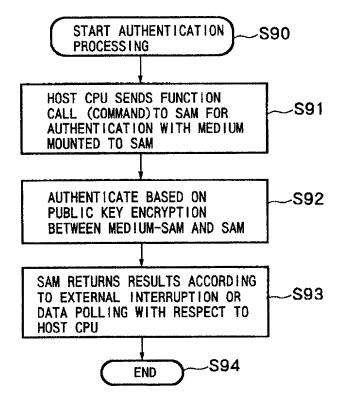
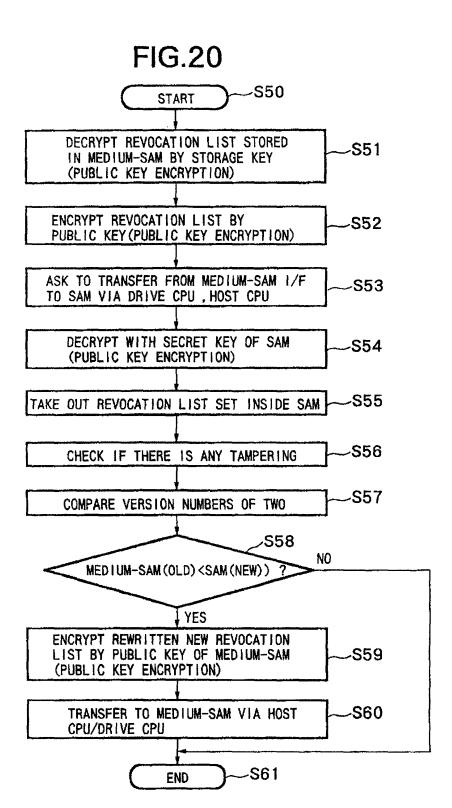


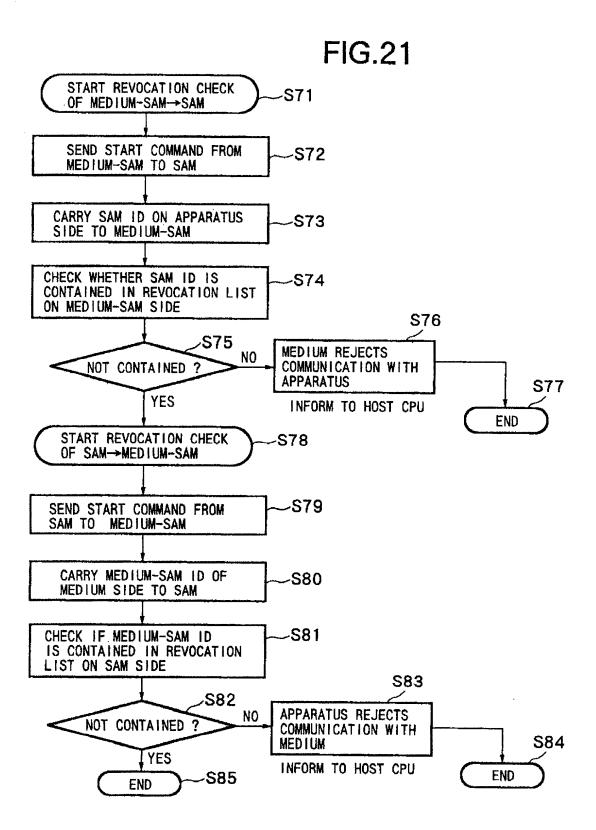
FIG.19





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FIG.22

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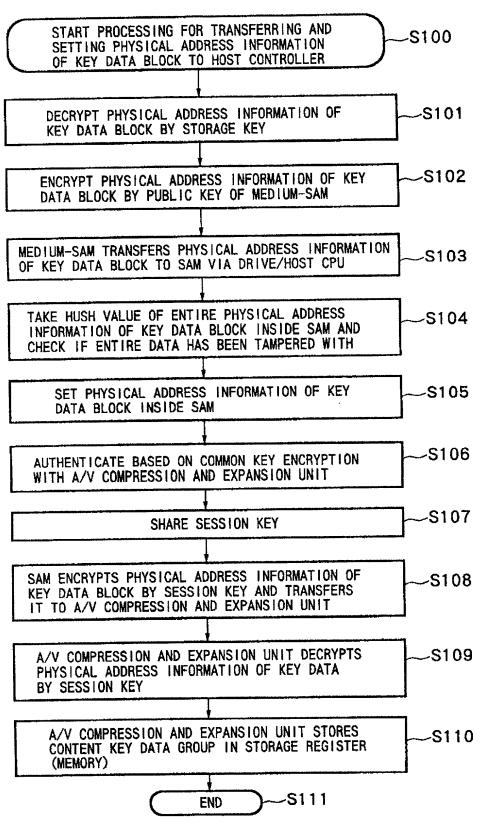


FIG.23

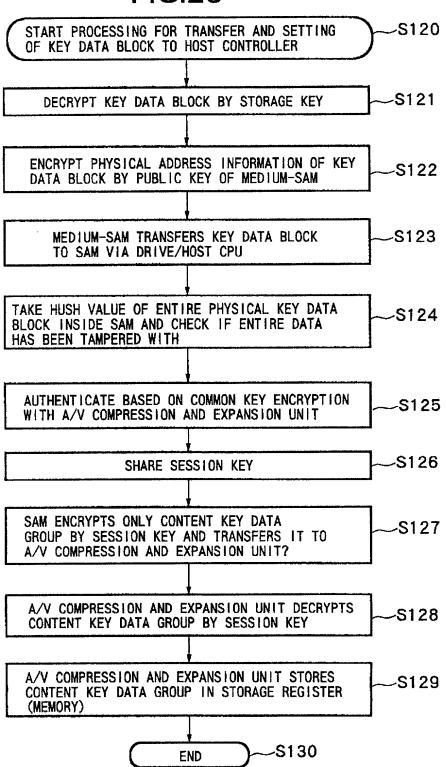


FIG.24

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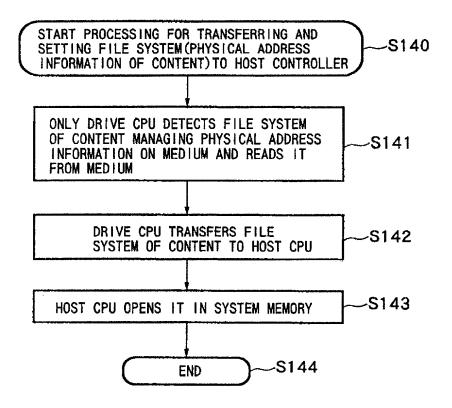
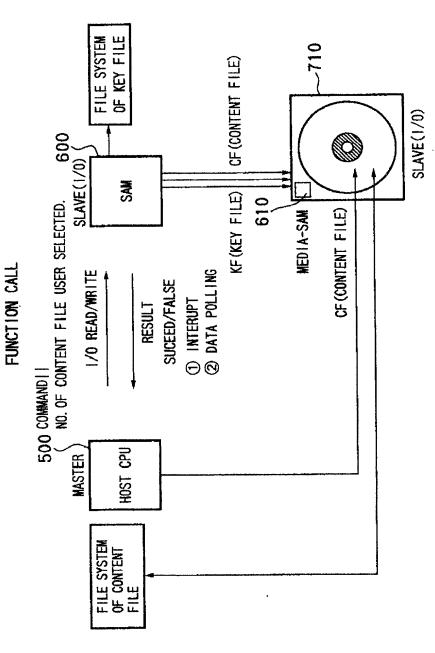
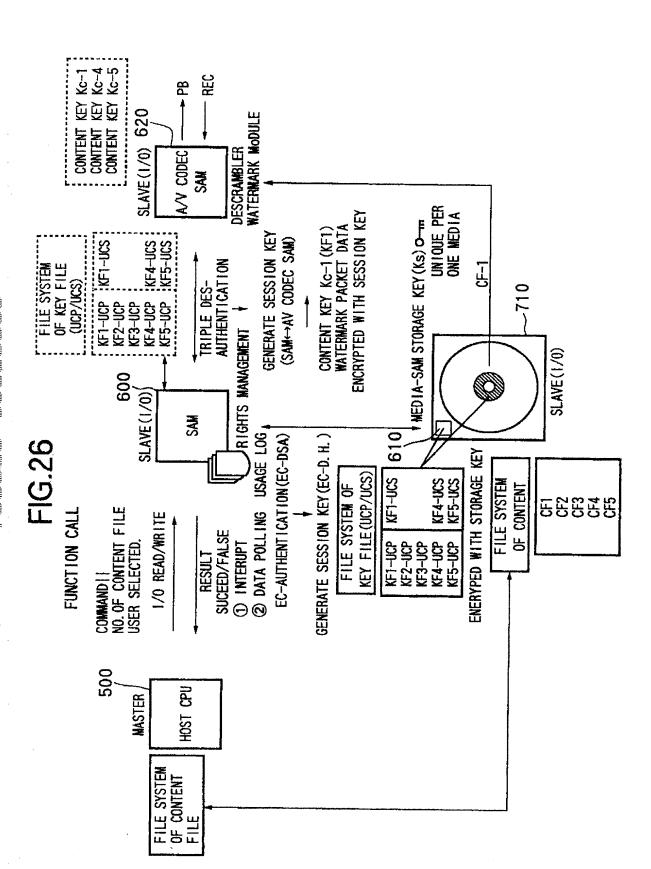


FIG.25



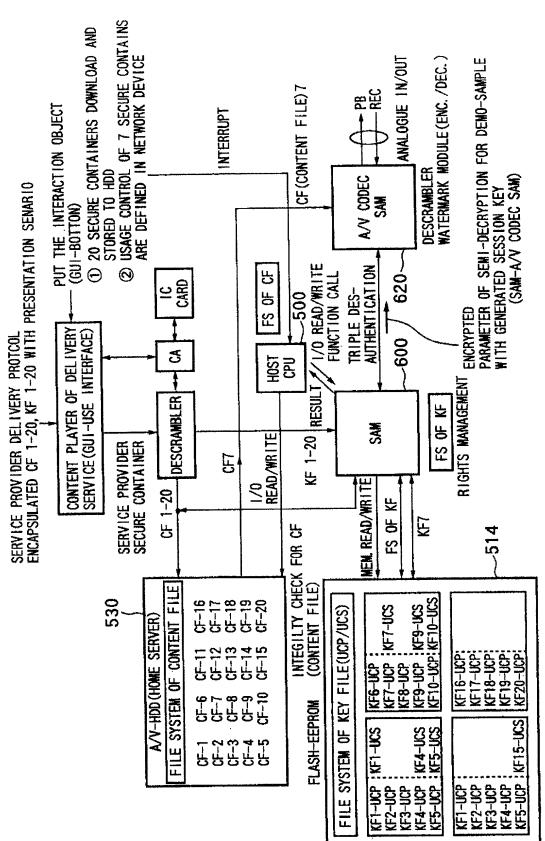
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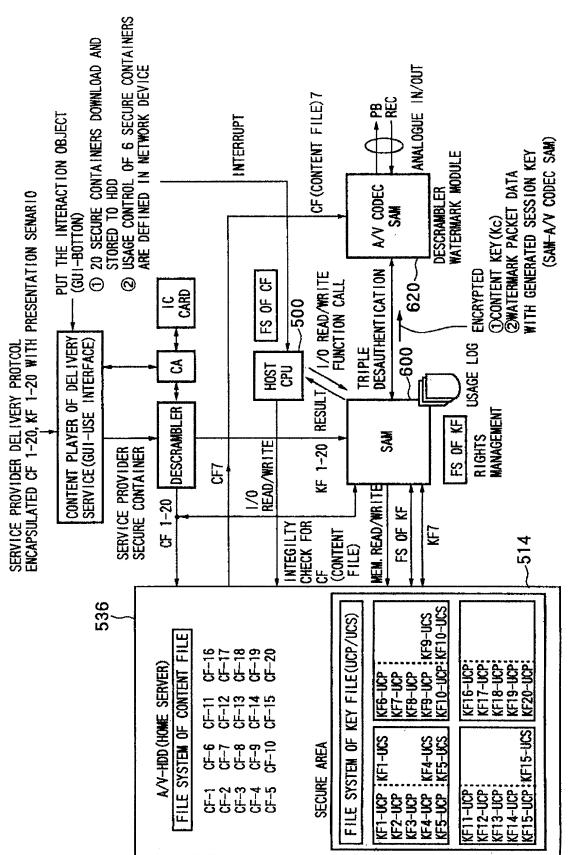
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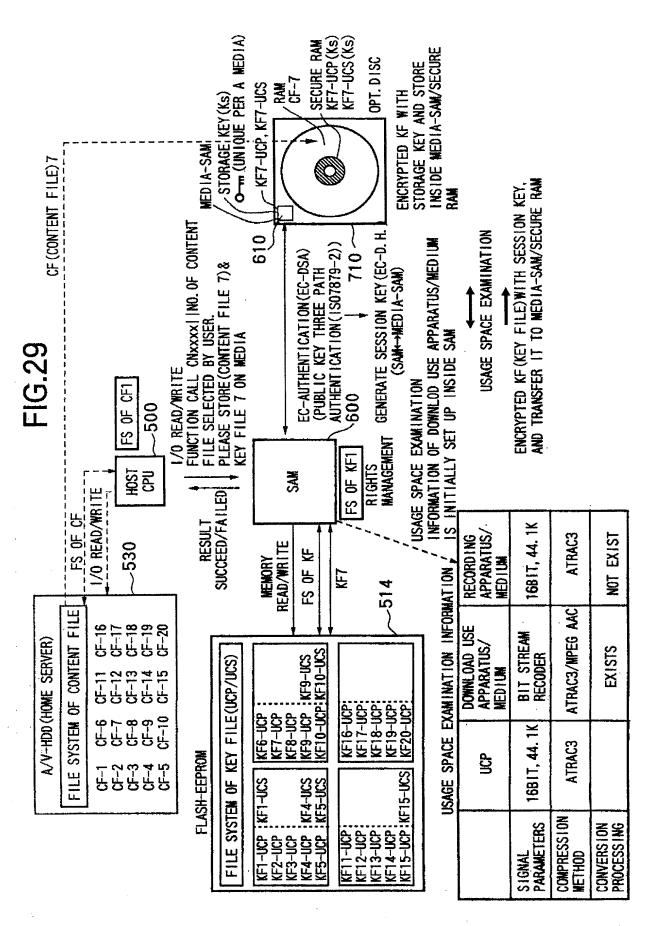








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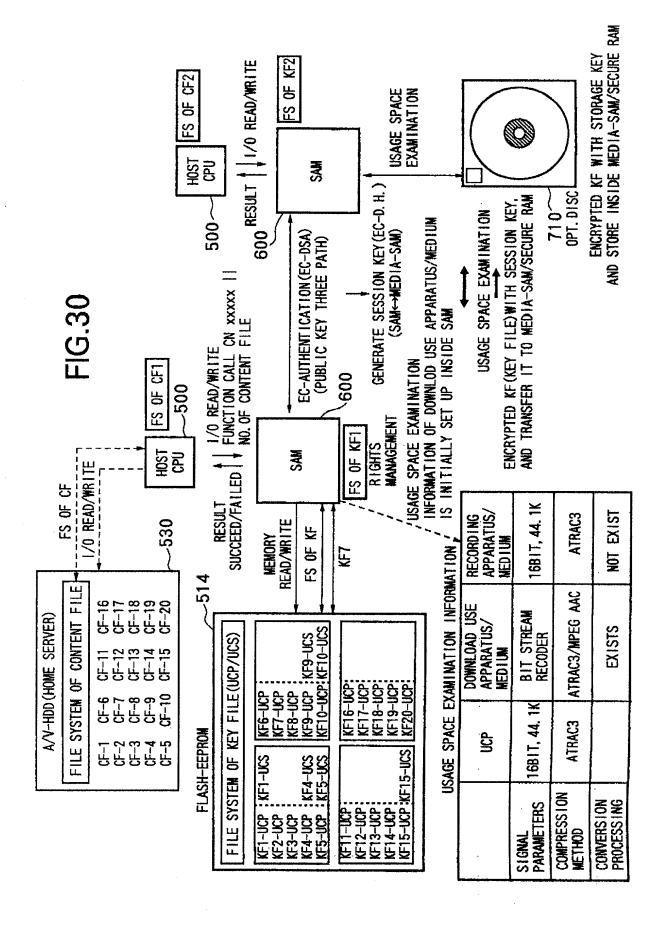
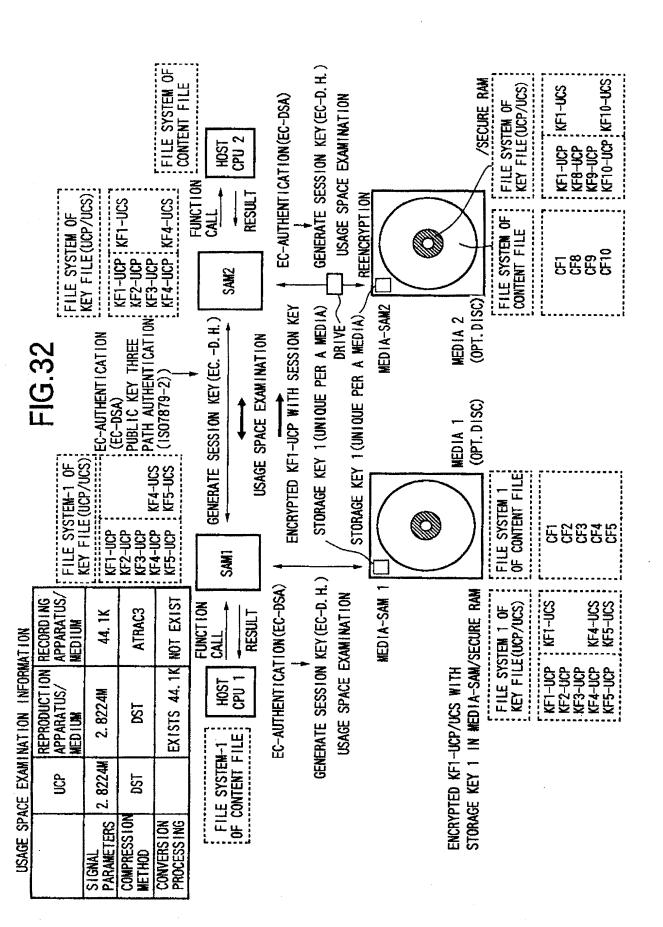


FIG.31	EC-AUTHENTICATION KF1-UCP (EC-DSA)	(1S07879-2)) KF4-UCP KF4-UCS FILE SYSTEM OF CONTENT FILE	GENERATE SESSION KEY (ECD. H.) SAM2 CALL HOST CPU 2 RESULT RESULT	KEY	STORAGE KEY 1 (UNIQUE PER A MEDIA) STORAGE KEY 1 (UNIQUE PER A MEDIA) USAGE SPACE EXAMINATION	MEDIA-SAM2	MEDIA 1 MEDIA 2 IN MEDIA-SAM (OPT. DISC) (OPT. DISC) (OPT. DISC)	FILE SYSTEM OF FILE SYSTEM OF CONTENT FILE KEY FILE (UCP/UCS)	CF1 KF1-UCP KF1-UCS CF8 KF8-UCP CF9 KF9-UCP CF10 KF10-UCS
USAGE SPACE EXAMINATION INFORMATION REPRODUCTION RECORDING UCP APPARATUS/ APPARATUS/ FILE SYSTEM-1 OF MEDIUM	44. 1K 44. 1K KF1-UCP KF2-UCP KF2-UCP KF2-UCP	ATRAC3 AIRAC3 AIRAC3 KF4-UCS KF4-UCS NOT EXIST NOT EXIST KF5-UCP KF5-UCS	FILE SYSTEM-1 HOST CALL SAM1 OF CONTENT FILE CPU 1 RESULT	EC-AUTHENTICATION(EC-DSA) + ENCRYPTED KF1	GENERATE SESSION KEY (EC-D. H.) USAGE SPACE EXAMINATION STORAGE KEY	MEDIA-SAM 1	ENCRYPTED KF1-UCP/UCS WITH STORAGE KEY 1 IN MEDIA-SAM/SECURE RAM (0)	FILE SYSTEM 1 OF FILE SYSTEM 1 KEY FILE (UCP/UCS) OF CONTENT FILE	KF1-UCP KF1-UCS GF1 KF2-UCP KF4-UCS GF3 KF4-UCP KF4-UCS GF4 KF5-UCP KF5-UCS GF5

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FILE SYSTEM-1 OF KEY FILE (UCP/UCS): KEY FILE	(EC-DSA) PUBL IC KEY THREE KF2-UCP PATH AUTHENTICATION KF3-UCP	KF5-UCP KF5-UCS (1S0/8/9-2)) KF4-UCP KF4-UCS FILE SYSTEM OF CONTENT FILE	SAM1 GENERATE SESSION KEY (ECD. H.) SAM2 CALL HOST CPU 2 USAGE SPACE EXAMINATION	ENCRYPTED KF1-UCP WITH SESSION KEY CAUTHENTICATION (EC-DSA)	STORAGE KEY 1 (UNIQUE PER A MEDIA) GENERATE SESSION KEY (EC-D. H.) USAGE SPACE EXAMINATION STORAGE KEY 1 (UNIQUE PER A MEDIA)	MEDIA-SAM2	MEDIA 1 MEDIA 2 (OPT. DISC) (OPT. DISC)	FILE SYSTEM 1 OF CONTENT FILE KEY FILE(UCP/UCS)	CF1 KF1-UCS CF2 CF8 KF8-UCP CF3 CF9 KF9-UCP CF4 CF10 KF10-UCS
NATION INFORMATION REPRODUCTION RECORDING APPARATUS/ MEDIUM MEDIUM	16B1T, 44. 1K 16B1T, 44. 1K ATRAC3 ATRAC3	NOT EXIST NOT EXIST	HOST CALL CPU 1 RESULT	EC-AUTHENT CAT ON (EC-DSA)	GENERATE SESSION KEY (EC-D. H.) USAGE SPACE EXAMINATION	MEDIA-SAM 1	ENCRYPTED KF1-UCP/UCS WITH STORAGE KEY 1 IN MEDIA-SAM/SECURE RAM	FILE SYSTEM 1 OF KEY FILE (UCP/UCS)	KF1-UCP KF1-UCS KF3-UCS KF3-UCP KF4-UCP KF4-UCS KF5-UCS KF5-UCS
Z	16B1T, 44. 1K 16B1 ATRAC3 AT	NOT	FILE SYSTEM-1 OF CONTENT FILE	EC-AU	GENERATE USAGI		ENCRYPTED KF1-UCP/UCS WITH STORAGE KEY 1 IN MEDIA-SAM		
USAGE	SSION	CONVERSION PROCESSING					шо		

USAGE SPACE EXAMINATION INFORMATION

FIG. 34 FILE SYSTEM-1 OF	EC-AUTHENTICATION		KF5-UCS ((1S07879-2)) KF4-UCP KI	SAM1 GENERATE SESSION KEY (ECD. H.) SAM2 CALL HOST CALL HOST CPU 2	ENCRYPT) STORAGE KEY 1 (UNIQUE PER A MEDIA) GENERATE SESSION KEY (EC-D. H.)	STORAGE KEY 1 (UNIQUE PER A MEDIA) USAGE SPACE EXAMINATION	MEDIA-SAM2 (T)	MEDIA 1 MEDIA 2 (OPT. DISC) (OPT. DISC)	FILE SYSTEM 1 OF CONTENT FILE CONTENT FILE KEY FILE(UCP/UCS)	CF1 KF1-UCP KF1-UCS CF3 KF8-UCP CF3 CF9 KF9-UCP CF4 CF4 CF9-UCP CF5 CF9 KF10-UCS CF5 CF5 CF5 CF5 CF5 CF5 CF5 CF10 KF10-UCS CF5
RECORDING APPARATUS/ MEDIUM	16B1T, 44. 1K	ATRAC3	NOT EXIST	FUNCT I ON CALL	TION(EC-DSA 1	V KEY (EC-D. H.)	EXAMINATION	MEDIA-SAM 1	I VSECURE RAM	rstem 1 of Le(ucp/ucs)	KF1-UCS KF4-UCS KF5-UCS
REPRODUCTION APPARATUS/ MEDIUM	16BIT, 44.1K	ATRAC3	NOT EXIST	1-1 HOST	EC-AUTHENTICATION (EC-DSA)	GENERATE SESSION KEY(USAGE SPACE EXAMINATION		ENCRYPTED KF1-UCP/UCS WITH STORAGE KEY 1 IN MEDIA-SAM/SECURE RAM	FILE SYSTEM 1 KEY FILE (UCP/	KF1-UCP KF2-UCP KF3-UCP KF4-UCP KF5-UCP
UCP	168!T, 44. 1K	ATRAC3		FILE SYSTEM-1 OF CONTENT FILE		GEN			NCRYPTED KF1. TORAGE KEY 1		
	SIGNAL PARAMETERS	COMPRESS I ON METHOD	CONVERS I ON PROCESS I NG						∾ ⊞		

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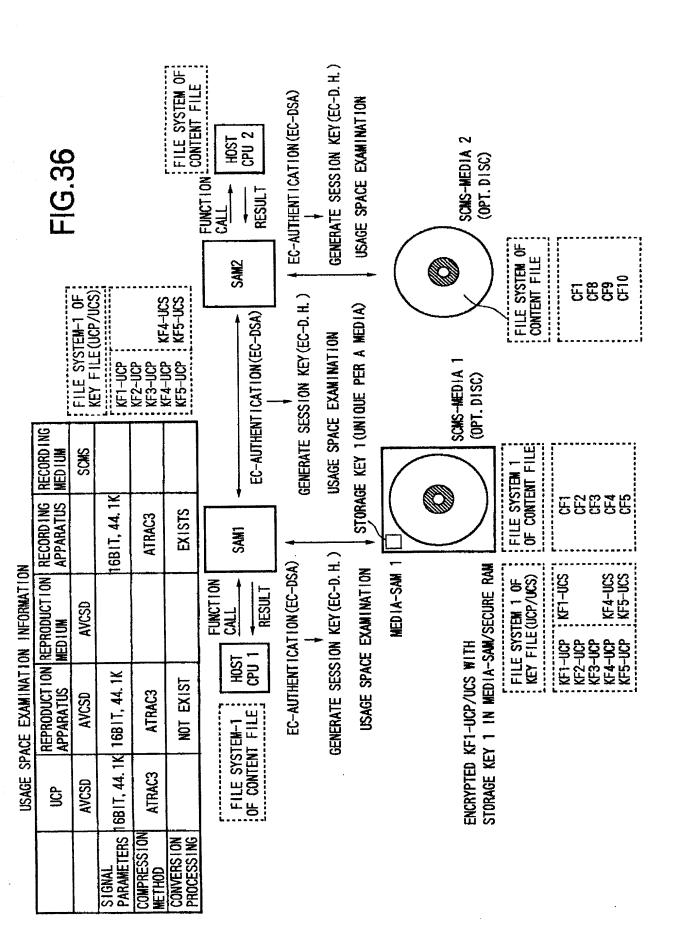
FILE SYSTEM OF CONTENT FILE HOST CPU 2 USAGE SPACE EXAMINATION 1394 COPY PROTECTION SCMS-MEDIA 2 1BIT, 2. 8224M 16BIT, 44. 1K SCMS RECORDING Apparatus/ Medium NOT EXIST NOT EXIST A VCSD-MEDIA 1 FILE SYSTEM-1 OF CONTENT FILE USAGE SPACE EXAMINATION INFORMATION HOST CPU 1 FIG.35 REPRODUCT I ON FUNCT I ON APPARATUS/ Medium RESULT **EXISTS** DST SE SAMI 1BIT, 2. 8224M STORAGE KEY 1 (UNIQUE PER A MEDIA) USAGE SPACE EXAMINATION MEDIA-SAM 1 9 S KF4-UCS KF5-UCS KEY FILE (UCP/UCS) FILE SYSTEM-1 OF COMPRESSION METHOD SIGNAL PARAMETERS CONVERSION PROCESSING KF4-UCP KF5-UCP KF2-UCP KF3-UCP SCHS

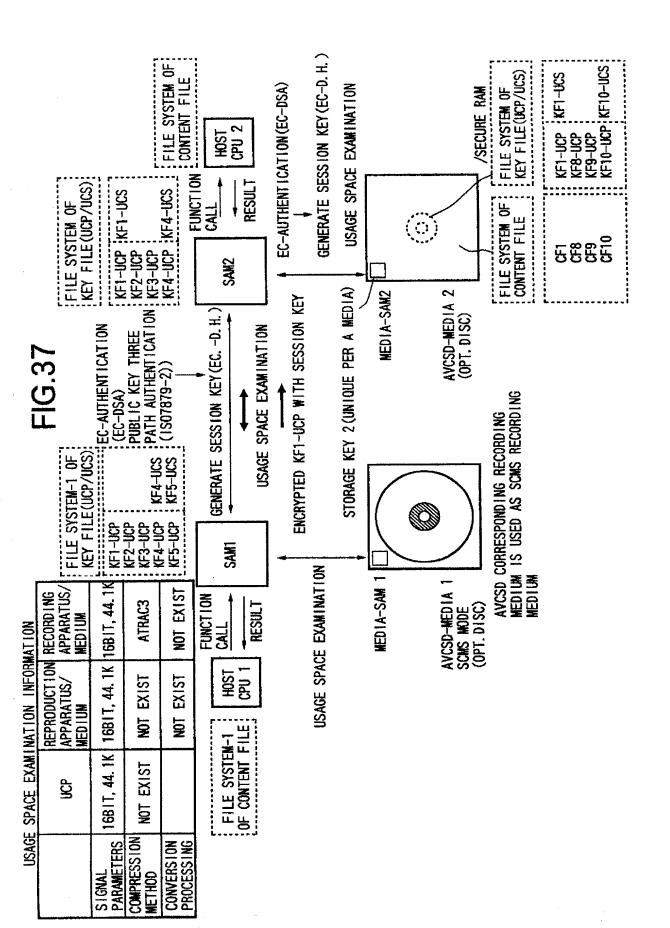
 $\{P_{i,j+1}^{m}\}$

(OPT. DISC)

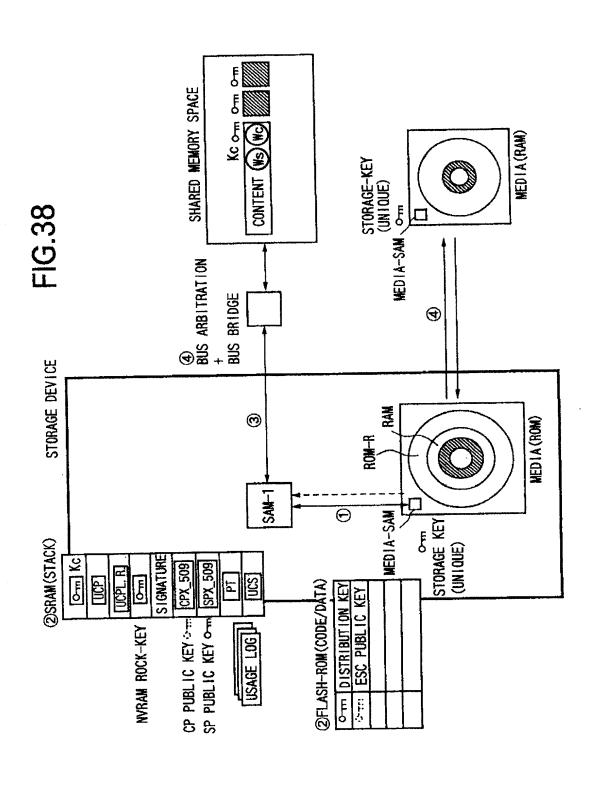
(OPT. DISC)

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